

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/667,796	09/22/2003	Jeffrey L. Hall	01333	1924
75	90 08/25/2005		EXAM	INER
Thomas H. Close			WALKE, AMANDA C	
Patent Legal Sta Eastman Kodak			ART UNIT	PAPER NUMBER
343 State Street			1752	
Rochester, NY 14650-2201			DATE MAILED: 08/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Carminer		Application No.	Applicant(s)					
Amanda C. Walke  The MAILING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  If the period for reply specified does is less than this (30) days, a reply whitin the statulery minimum of thiny (30) days will be considered threth.  If the period for reply specified does is less than this (30) days, a reply whitin the statulery minimum of thiny (30) days will be considered threthy.  If the period for reply specified does is the standard period will apply will be statulery minimum of thiny (30) days will be considered threthy.  If the period for reply specified does is the standard period will apply will be standard and this communication.  A proper reviewed by the Office late than there mentites after the realling date of this communication.  A proper provided the office late than there mentites after the realling date of this communication.  A proper provide the standard period of this communication, and the standard period of this communication.  A proper provided by the Office late of the African and the standard period of this communication.  A proper provided by the Office late of the African and the standard period of this communication.  A proper provided by the Standard period of this communication.  A proper provided by the standard period of the provided period of this communication.  A proper provided by the standard period of the provided period of this communication.  A proper provided by the standard period peri		10/667,796	HALL, JEFFREY L.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations or tile may be evaluable used the provided used for the provide of 37 CFR 1.35(e). In no event, however, may a reply be timely filled  Ethic period for reply septide below is less but hirty (20) days, a reply within the statutory minimum of thinty (30) says will be considered timely.  Ethic period for reply septide debuse, it is nature industry period will exply and will explice (50) MONTHS from the mailing date of this communication, it is not to estimate a period to reply with the statutory minimum of thinty priod will explice (50) MONTHS from the mailing date of this communication, even if timely find, may reduce any search attent the mailing date of this communication, even if timely find, may reduce any search attent the mailing date of this communication, even if timely find, may reduce any search attent adjustment. See 37 CFR 1.704(b).  Status  1) ☑ Responsive to communication(s) filled on 15 June 2005.  2a) ☐ This action is FINAL.  2b) ☑ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 ☑ Claim(s) 1-20 Is/are pending in the application.  4) ☑ Claim(s) 1-20 Is/are rejected.  5) ☐ Claim(s) 1-20 Is/are rejected.  5) ☐ Claim(s) 2-20 Is/are rejected.  7) ☐ Claim(s) 2-20 Is/are rejected.  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on 1-15 Is/are withdrawn from consideration.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The coath or declara	Office Action Summary	Examiner	Art Unit					
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of lines may be available under the provisions of 37 CFR 1.35(e). In no event, however, may a reply be timely filled  If the period for reply a specified above, the maximum statutory pacified will apply and apply appl								
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be semilable under the provisions of 37 CPR 1.13(a). In a event, however, may a raphy be timely filled after 50 k(g) MONTHS from the mailing date of the communication.  If NO send for reply is specified above, the maximus activary particle ab statistory minimus on thisty, (30) days will be considered timely.  If NO send for reply is specified above, the maximus taktors prated will apply and will expect \$X(g) MONTHS from the mailing date of this communication.  Failurs to reply within the set or extended period for reply will, by statistic, exuse the application to become ABANCONED (33 U.S.C. § 133).  Any reply received by the Office and the send of the communication, even if timely filled, may reduce any seared plant term edipatiment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filled on 15 June 2005.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 1-20 is/are allowed.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) Claim(s) is/are allowed.  8) Claim(s) 1-20 is/are rejected.  7) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or bim objected to by the Examiner.  Application Papers  9) Craim(s) 1-20 is/are pending sheet(s) including the correction is required if the drawing(s) is objected to .See 37 CFR 1.121(d).  11) Cartified copies of the priority documents have been received.  2 Certified copies of the priority documents have been received in this National Stage application from the International Bu								
1) Responsive to communication(s) filed on 15 June 2005. 2a) ☐ This action is FINAL. 2b) ☑ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims 4) ☑ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheek(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1 ☐ Certified copies of the priority documents have been received in Application No 3 ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(e) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5 ☐ Paper No(e)/Mail Date. 5 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5 ☐ Notice of Draftsperson's Patent Application (PTO-152)	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any							
2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some C None of:  1. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  5) Notice of Informal Patent Application (PTO-152)	Status							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	1) Responsive to communication(s) filed on 15 Ju	<u>ne 2005</u> .						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)	2a) This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.						
Disposition of Claims  4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of References Cited (PTO-892)  3) ☐ Internation Disclosure Statement(s) (PTO-1439 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892) Characteristics of Parences Cited (PTO-1449 or PTO/SB/08) C	closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Paper No(s)/Meil Date  Notice of Informal Patent Application (PTO-152)	Disposition of Claims							
4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Paper No(s)/Meil Date  Notice of Informal Patent Application (PTO-152)	4) Claim(s) 1-20 is/are pending in the application.							
6   Claim(s) 1-20 is/are rejected. 7   Claim(s)	· · · · · · · · · · · · · · · · · · ·							
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)	5) Claim(s) is/are allowed.							
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)	6)⊠ Claim(s) <u>1-20</u> is/are rejected.							
Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)	8) Claim(s) are subject to restriction and/or	r election requirement.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	Application Papers							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	9) The specification is objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)								
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)								
Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  10 ☐ Notice of Informal Patent Application (PTO-152)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  10 ☐ Notice of Informal Patent Application (PTO-152)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  1) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119							
1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	a) All b) Some * c) None of:							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date	1. Certified copies of the priority documents have been received.							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  * See the attached detailed Office action for a list of the certified copies not received.  4) Interview Summary (PTO-413) Paper No(s)/Mail Date	2. Certified copies of the priority documents have been received in Application No							
* See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  * See the attached detailed Office action for a list of the certified copies not received.  4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)								
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)	* See the attached detailed Office action for a list of the certified copies not received.							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)	Attachment(s)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)								
, =	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date					
			atent Application (PTO-152)					

Application/Control Number: 10/667,796

Art Unit: 1752

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Tamura (6,382,125).

Tamura disclose a temperature control material comprising a temperature indicator whose developed color density differs according to temperature, which is irreversible at environmental temperature, which changes its color according to crystal or non-crystal, or phase separation or non-phase separation, and whose glass transition temperature is set to a temperature higher than control temperature, by irradiating the temperature indicator with light having a wavelength absorbed by a color developed by the temperature indicator and detecting the intensity of the reflected light or transmitted light. Accordingly, even when the temperature becomes higher than control temperature temporarily, temperature control can be carried out smoothly thereafter. It is possible to know the storage environment of the temperature indicator by irradiating the above-described temperature indicator with light having a wavelength absorbed by a color developed by the temperature indicator and detecting the density of the temperature indicator, that is, the intensity of reflected light or transmitted light. The styrene-methacrylic acid copolymer having a Tgc of 126 degrees C. is used as a binder resin. When Tgc of this binder resin is changed to a temperature higher than Tgr of the temperature indicating material, the color development speed

Art Unit: 1752

after initialization can be changed. For example, when the content of methacrylic acid is changed from 10% (A91) to 13% (A-14: Dainippon Ink and Chemicals, Inc.), Tgc is shifted to 135 degrees C. and the color development speed after initialization is reduced. When a polystyrene resin having a Tgc of 92 degrees C. and containing no methacrylic acid is used, the color development speed is increased. Tgr of the temperature indicating material is set to a temperature higher than measurement environmental temperature and Tgc of the binder resin is set to a temperature higher than Tgr. The color development speed is controlled by changing Tgc of the binder resin. Since this temperature indicator starts temperature control after it is initialized by heating and quenching with a thermal head, a separator is not required. Color development proceeds in portions initialized by the time and temperature of the temperature indicator. Then, to carry out temperature control accurately, an erasure time is input into a pattern which is initialized (erased) with the thermal head. For instance, a bar code is formed of erased portions and unerased portions, and an erasure time is included in bar code information. Stated more specifically, when the issue time is 00:00 on Apr. 1, 1998, "4998040100001" is printed on a bar code. The first "49" indicates a flag, "98" indicate the year, "0401" indicates April 1, and "0000" indicates 00:00. The last "1" indicates a check character in accordance with the format of JAN13. In this embodiment, temperature control start time grasping means for grasping a temperature control start time by reading the bar code including time information of a temperature control material and time recognition means for grasping a time when the temperature is actually detected are provided and means for calculating the total time of temperature control by means of the above temperature control start time grasping means and the time recognition means, detecting means for detecting the density of a color developed at environmental temperature after

Art Unit: 1752

erasure, that is, the intensity of reflected light by irradiating the temperature indicator with light having a wavelength absorbed when the temperature indicator develops a color, and a reader having a table in which the above temperature indicator is recorded are used to detect an exposure temperature. That is, the preferred embodiment introduces a method for detecting average exposure temperature by the table in which the above temperature indicator is recorded, the intensity of reflected light of the temperature indicator at the time of actually measuring the temperature, and the total time of temperature.

Given the teachings of the reference, the instant claims are anticipated.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Paton et al (6,536,370).

Paton et al disclose a device which is sensitive to an environmental substance in a controlled environment. Embodiments include a humidity sensitive timer treated with a cobalt salt which changes colors after a certain exposure time within the controlled environment. Elapsed time is measured by exposing the timer to a humidity controlled environment and monitoring the timer for a change in color. In an embodiment of the present invention, when the environmental substance to be measured is humidity, an absorptive media, such as clay or silica gel, can be impregnated with the substance-sensitive material, such as an inorganic salt or an organic compound, which display color changes upon absorption of humidity. Alternatively, the absorptive media and substance-sensitive material can be blotter paper impregnated with inorganic salts or organic compounds. Representative organic compounds or inorganic salts which are useful in humidity detectors are acidified vanillin, magnesium nitrate, sugar, cuprous chloride, sodium bromide, nickel nitrate, ferric nitrate, cobalt bromide, ammonium nitrate,

Art Unit: 1752

sodium dichromate, ferrous chloride, ammonium dichromate, nickel chloride, strontium chloride and cuprous nitrate. Additionally, it may be desirable to use various water-soluble dyes with certain salts which do not have a strong visible color of their own. Thus, Neptune Blue, BRA dye, Rhodamine B dye and Alphazurine 2 G Blue dye are useful in combination with some of the salts listed above. In an embodiment of the present invention, the substance-sensitive material is formed of a sheet of moisture absorbent blotter paper treated with a chemical solution of cobalt chloride. The cobalt salt will change color from a first readable blue color through a lavender color to a second readable pink color upon exposure to water vapor. The blue color is representative of a dry condition and the pink color is representative of a saturated state. A pink colored cobalt chloride salt can be regenerated by driving off the absorbed moisture thereby causing the salt to revert back to the first readable blue color and resetting the timer. A sheet of the impregnated blotter paper can be provided for each discrete patch 12A through 12D such that each of the patches have blotter paper with a different amount cobalt chloride and/or additives which will change color at different exposure times, thus providing a timer with a series of readable exposure levels signaling discrete time intervals. In an embodiment of the present invention, as illustrated in FIG. 2, the timer can comprise a laminated structure, where substrate 10 supports substance-sensitive material 22 and a first layer, layer 24, can be laminated to substrate 10 substantially covering substance-sensitive material 22. Layer 24 should be of a material that is transparent to permit visual observations of changes in color and should be sufficiently permeable to allow communication between the environmental substance and substance-sensitive material 22.

Given the teachings of the reference, the instant claims are anticipated.

## Response to Arguments

3. Applicant's arguments filed 6/10/2005 have been fully considered but they are not persuasive.

Applicant has argued that the Tamura reference fails to teach the instantly claimed invention as the temperature control material of the reference is "not to be affected by the outside temperature". It appears by this argument that the applicant is attempting to read intended use limitations into the instant claim requirements. The material of the reference is clearly a temperature-sensitive, or temperature indicating material, that is set to a specific temperature, thus once this temperature is reached by the outside environment, regardless of that environment or the temperature it is set to, and irreversible change occurs demonstrating that the desired temperature has been reached, therefore the material of Tamura meets the instant claim limitations.

Applicant has argued that the Paton reference fails to meet the instant claim limitations because it teaches that the film may have a reversible color change in ONE embodiment.

Alternatively, the reference does teach a temperature sensitive film which is not reversible, and thus meets the claim limitations.

Also, applicant is reminded that as stated in the MPEP:

The prima facie case of obviousness is not undermined simply because applicant's motivation for teaching to add the compounds to the material or to prepare the material differs from that of the prior art's motivation. <u>In re Dillon</u>, 919 F.2d 688, 692-93, 16 USPQ2d 1897, 1901 (Fed. Cir. 1990) (in banc), cert. Denied, 500 U.S. 904 (1991).

#### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/667,796 Page 8

Art Unit: 1752

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Amanda C Walke

Examiner Art Unit 1752

ACW August 20, 2005